

April 17, 2017

Dave Blye
Environmental Standards, Inc.
1140 Valley Forge Road
PO Box 810
Valley Forge, PA 19482

RE: Project: Hudson River Remedial Action M
Pace Project No.: 10384626

Dear Dave Blye:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carol Davy
carol.davy@pacelabs.com
1(612)607-6436
Project Manager

Enclosures

cc: Meg Michell, Environmental Standards, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10384626001	HFL-BDUP-T170410113739	Water	04/08/17 00:00	04/12/17 09:20
10384626002	HFL-SVDB-T170410113037	Water	04/07/17 13:35	04/12/17 09:20
10384626003	HFL-SVDB-T170410113433	Water	04/08/17 08:51	04/12/17 09:20
10384626004	HFL-SVDB-T170410141826	Water	04/10/17 12:14	04/12/17 09:20
10384626005	HFL-WAFO-T170410113607	Water	04/07/17 14:40	04/12/17 09:20
10384626006	HFL-WAFO-T170410113704	Water	04/08/17 10:46	04/12/17 09:20
10384626007	HFL-WAFO-T170410141918	Water	04/10/17 13:14	04/12/17 09:20

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SAMPLE ANALYTE COUNT

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10384626001	HFL-BDUP-T170410113739	SM 2540D	NAS	1	PASI-M
10384626002	HFL-SVDB-T170410113037	SM 2540D	NAS	1	PASI-M
10384626003	HFL-SVDB-T170410113433	SM 2540D	NAS	1	PASI-M
10384626004	HFL-SVDB-T170410141826	SM 2540D	NAS	1	PASI-M
10384626005	HFL-WAFO-T170410113607	SM 2540D	NAS	1	PASI-M
10384626006	HFL-WAFO-T170410113704	SM 2540D	NAS	1	PASI-M
10384626007	HFL-WAFO-T170410141918	SM 2540D	NAS	1	PASI-M

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PROJECT NARRATIVE

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Method: SM 2540D

Description: 2540D TSS, Low Level

Client: GE_Anchor QEA, LLC

Date: April 17, 2017

General Information:

7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-BDUP-T170410113739 **Lab ID:** 10384626001 Collected: 04/08/17 00:00 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level									
Analytical Method: SM 2540D									
Total Suspended Solids	56.9	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-SVDB-T170410113037 **Lab ID:** 10384626002 Collected: 04/07/17 13:35 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level		Analytical Method: SM 2540D							
Total Suspended Solids	36.5	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-SVDB-T170410113433 **Lab ID:** 10384626003 Collected: 04/08/17 08:51 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level									
Analytical Method: SM 2540D									
Total Suspended Solids	21.2	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-SVDB-T170410141826 **Lab ID:** 10384626004 Collected: 04/10/17 12:14 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level									
Analytical Method: SM 2540D									
Total Suspended Solids	5.8	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-WAFO-T170410113607 **Lab ID:** 10384626005 Collected: 04/07/17 14:40 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level									
Analytical Method: SM 2540D									
Total Suspended Solids	55.7	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-WAFO-T170410113704 **Lab ID:** 10384626006 Collected: 04/08/17 10:46 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level									
Analytical Method: SM 2540D									
Total Suspended Solids	50.1	mg/L	1.0	0.50	1		04/13/17 14:48		

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ANALYTICAL RESULTS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Sample: HFL-WAFO-T170410141918 **Lab ID:** 10384626007 Collected: 04/10/17 13:14 Received: 04/12/17 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level		Analytical Method: SM 2540D							
Total Suspended Solids	13.8	mg/L	1.0	0.50	1		04/13/17 14:48		

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QUALITY CONTROL DATA

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

QC Batch:	468469	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D TSS, Low Level
Associated Lab Samples:	10384626001, 10384626002, 10384626003, 10384626004, 10384626005, 10384626006, 10384626007		

METHOD BLANK:	2558401	Matrix:	Water
Associated Lab Samples:	10384626001, 10384626002, 10384626003, 10384626004, 10384626005, 10384626006, 10384626007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	0.50	04/13/17 14:48	

LABORATORY CONTROL SAMPLE & LCSD:		2558402								
		2558403								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	100	99.7	97.3	100	97	80-120	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hudson River Remedial Action M

Pace Project No.: 10384626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10384626001	HFL-BDUP-T170410113739	SM 2540D	468469		
10384626002	HFL-SVDB-T170410113037	SM 2540D	468469		
10384626003	HFL-SVDB-T170410113433	SM 2540D	468469		
10384626004	HFL-SVDB-T170410141826	SM 2540D	468469		
10384626005	HFL-WAFO-T170410113607	SM 2540D	468469		
10384626006	HFL-WAFO-T170410113704	SM 2540D	468469		
10384626007	HFL-WAFO-T170410141918	SM 2540D	468469		

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300 West Grand Avenue Montvale, NJ 07645 Ph: 201-938-8899

Client: General Electric Company

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC170410142415PACE
Sample Custodian: CCY
Lab: PACE

10384626

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
001	HFL-BDUP-T170410143739	DUP	W	04/08/2017		W	2	Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
002	HFL-SVDB-T170410143037	ENV	W	04/07/2017	13:35	W	3	Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
003	HFL-SVDB-T170410143433	ENV	W	04/08/2017	08:51	W	3	Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
004	HFL-SVDB-T170410141826	ENV	W	04/10/2017	12:14	W	3	Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC
005	HFL-WAFO-T170410143607	ENV	W	04/07/2017	14:40	W	3	Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
006	HFL-WAFO-T170410143704	ENV	W	04/08/2017	10:46	W	2	Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
007	HFL-WAFO-T170410141918	ENV	W	04/10/2017	13:14	W	3	Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC

* TSS only sent to PACE-MN 9/11/17


Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4/10/17 14:30	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4/11/17 11:05	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4/11/17 12:57	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4/11/17 13:57	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4/11/17 16:00	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Company: <i>[Company]</i> Date/Time: 4-12-17 9:20

Date Printed: 4/10/2017

* S = SEDIMENT, W = WATER, PW = PORE WATER

** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Dec2016 Page 1 of 2
	Document No.: F-MN-L-213-rev.20	Issuing Authority: Pace Minnesota Quality Office

Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 10384626



Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☐ Pace ☐ SpeedDee ☐ Other:

Tracking Number: 71454771 8259

Custody Seal on Cooler/Box Present? ☐ Yes ☐ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer ☒ 151401163
Used: ☐ 151401164

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.1 Cooler Temp Corrected (°C): 0.3 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: 10.2 Date and Initials of Person Examining Contents: 4-12-17/DA

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: LOT		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted:

Date/Time:

Comments/Resolution:

Project Manager Review:

Date: 4/12/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 10384626

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InOrganic

Gravimetric

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FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-BDUP-T170410113739

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action

Lab Sample ID: 10384626001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	56.9		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-SVDB-T170410113037

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action
Lab Sample ID: 10384626002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	36.5		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-SVDB-T170410113433

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action
Lab Sample ID: 10384626003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	21.2		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-SVDB-T170410141826

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action
Lab Sample ID: 10384626004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	5.8		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-WAFO-T170410113607

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action

Lab Sample ID: 10384626005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	55.7		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-WAFO-T170410113704

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action
Lab Sample ID: 10384626006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	50.1		mg/L	1	04/13/2017 14:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

HFL-WAFO-T170410141918

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action
Lab Sample ID: 10384626007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Total Suspended Solids	13.8		mg/L	1	04/13/2017 14:48

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract : Hudson River Remedial Action M

Method Blank Matrix: Water Instrument ID: 10WET4

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	2558401	C
Total Suspended Solids									<1.0	U

SAMPLE NO.

FORM VI INORGANIC-1
DUPLICATES

2558403LCSD

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial ActionMatrix: Water Concentration Units: mg/LPercent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Total Suspended Solids	10	99.7	97.3	2

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

2558402LCS

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Total Suspended Solids	mg/L	100	99.7	100	80	120

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

SAMPLE NO.

2558403LCSD

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Total Suspended Solids	mg/L	100	97.3	97	80	120

FORM IX INORGANIC-1
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Instrument ID: 10WET4

Concentration Units: mg/L

Analyte	PQL	MDL	MDL Date
Total Suspended Solids	2.0	1.0	04/01/2015

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Batch: WET 52954

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2558401	2558401	04/13/2017	1000	500
2558402	2558402	04/13/2017	1000	500
2558403	2558403	04/13/2017	1000	500
10384626001	HFL-BDUP-	04/13/2017	1000	500
10384626002	HFL-SVDB-	04/13/2017	998	500
10384626003	HFL-SVDB-	04/13/2017	996	500
10384626004	HFL-SVDB-	04/13/2017	1000	500
10384626005	HFL-WAFO-	04/13/2017	998	500
10384626006	HFL-WAFO-	04/13/2017	1000	500
10384626007	HFL-WAFO-	04/13/2017	996	500

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10384626 Contract: Hudson River Remedial Action M

Instrument ID: 10WET4 Analysis Method: SM 2540D

Start Date: 04/13/2017 14:48 End Date: 04/13/2017 14:48

Sample Name	Lab Sample ID	D/F	Date	Time	tss w
2558401BLANK	2558401	1	04/13/2017	14:48	X
2558402LCS	2558402	1	04/13/2017	14:48	X
2558403LCSD	2558403	1	04/13/2017	14:48	X
HFL-BDUP-T170410113739	10384626001	1	04/13/2017	14:48	X
HFL-SVDB-T170410113037	10384626002	1	04/13/2017	14:48	X
HFL-SVDB-T170410113433	10384626003	1	04/13/2017	14:48	X
HFL-SVDB-T170410141826	10384626004	1	04/13/2017	14:48	X
HFL-WAFO-T170410113607	10384626005	1	04/13/2017	14:48	X
HFL-WAFO-T170410113704	10384626006	1	04/13/2017	14:48	X
HFL-WAFO-T170410141918	10384626007	1	04/13/2017	14:48	X

Batch Information: WET 52954 TSS LL

Analysis Method	SM 2540D
Oven ID	10WET17
Oven Temp Out1 Corr Date/Time Init	103.0 103.0 04/14/2017 07:52 NAS
Oven Temp Out2 Corr Date/Time Init	103.0 103.0 04/14/2017 11:12 NAS
Reviewed By Date	04/17/2017 13:58

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TSS Final (mg/L)	TSS Posted (mg/L)	Run Date/Time	Initial Volume (mL)	TSS Filters ()	Filter Wt 1 (g)	Filter Use 1	Oven Wt 1 (g)	Oven Use 1	Oven Wt 2 (g)
2540D WLL	BLANK	2558401	Y	cMUXN	0.0000	0.0000	04/13/2017 14:48	1000	116200 ()	0.1174	M	0.1174	N	0.1174
2540D WLL	LCS	2558402	Y	cMUZ4	99.700	199.40	04/13/2017 14:48	1000	116200 ()	0.1179	M	0.2176	N	0.2176
2540D WLL	LCSD	2558403	Y	cMUZ5	97.300	194.60	04/13/2017 14:48	1000	116200 ()	0.1165	M	0.2143	N	0.2138
2540D WLL	PS	10384626002	Y	cMUZ6	36.473	72.800	04/13/2017 14:48	998	116200 ()	0.1303	M	0.1667	N	0.1667
2540D WLL	PS	10384626005	Y	cMUZ7	55.711	111.20	04/13/2017 14:48	998	116200 ()	0.1167	M	0.1723	N	0.1723
2540D WLL	PS	10384626001	Y	cMUZ8	56.900	113.80	04/13/2017 14:48	1000	116200 ()	0.1128	M	0.1697	N	0.1697
2540D WLL	PS	10384626003	Y	cMUZ9	21.185	42.200	04/13/2017 14:48	996	116200 ()	0.1168	M	0.1379	N	0.1379
2540D WLL	PS	10384626006	Y	cMUZA	50.100	100.20	04/13/2017 14:48	1000	116200 ()	0.1162	M	0.1662	N	0.1663
2540D WLL	PS	10384626004	Y	cMUZB	5.8000	11.600	04/13/2017 14:48	1000	116200 ()	0.1145	M	0.1204	N	0.1203
2540D WLL	PS	10384626007	Y	cMUZC	13.755	27.400	04/13/2017 14:48	996	116200 ()	0.1159	M	0.1296	N	0.1296

Template Version: F-MN-I-326-Rev.03 (24Jan2017)

Instrument	10WET4	Acceptance Range:	103-105 C
Oven Temp Correction Factor	0	Oven Temp In1 Corr Date/Time Init	103.0 103.0 04/13/2017 14:48 NAS
Desic. Out 1 Date/Time Init	04/14/2017 09:29 NAS	Oven Temp In2 Corr Date/Time Init	103.0 103.0 04/14/2017 09:35 NAS
Desic. Out 2 Date/Time Init	04/14/2017 12:16 NAS	Reviewed By	KEO

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	BLANK	2558401	Y	NaN	0.0000		

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
10384626	2540D WLL	LCS	2558402	Y	0.0000		115777 (50)
	2540D WLL	LCSD	2558403	Y	0.51256		115777 (50)
	2540D WLL	PS	10384626002	Y	0.0000	1*	
	2540D WLL	PS	10384626005	Y	0.0000	1*	
	2540D WLL	PS	10384626001	Y	0.0000		
	2540D WLL	PS	10384626003	Y	0.0000	1*	
	2540D WLL	PS	10384626006	Y	0.19980		
	2540D WLL	PS	10384626004	Y	1.7094		
	2540D WLL	PS	10384626007	Y	0.0000	1*	

Sample Notes:

1*: Insufficient sample volume

Standard Notes:

115777: TS/TSS/TDS Handmade Standard, Used